

4. Guowei

Program Name: Guowei.java

Input File: guowei.dat

Guowei has gotten a job working for the local television station KUIL. His first job at the station is to be responsible for the news ticker. The news ticker is the crawler at the bottom of the screen that has breaking news, program alerts, public service announcements or sports scores. The station can display 40 characters at a time across the bottom of the screen and they scroll past from right to left. Characters appear on the right and disappear on the left and when the ticker first appears it contains 40 characters. The message wraps around within the crawler. That means that if enough characters are scrolled across the screen the original characters will reappear on the right. Write a program that will help Guowei create a news ticker.

Input: A single value N ($N \leq 20$) followed by N sets of data consisting of two lines each. The first line of each data set will be a single value C ($1 \leq C \leq 160$) indicating the number of characters that have scrolled off the screen. The second line of data will be a line of text to be displayed in the ticker. This line of text will always contain more than 40 characters (this includes spaces and punctuation).

Output: The 40 characters that will be displayed within the ticker after C characters have been scrolled across the screen. If the first character in the ticker wraps around to be displayed again, there must be a space between the last character and the first character.

Sample input:

```
3
5
All Tom Green County schools will have a 10 o'clock start
tomorrow morning.
25
NEWS FLASH! Mayor Bob Baggins has announced his campaign for
Texas State Senate seat District 19.
67
Don't miss the Children's Miracle Network Telethon.
```

Sample output:

```
om Green County schools will have a 10 o
gins has announced his campaign for Texa
Children's Miracle Network Telethon. Don
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